Either the =
David Holloway or
Geoffrey St. Leger

Access DB# 123662

SEARCH REQUEST FORM
Scientific and Technical Information Center

16

Requester's Full Name: Gwen Liang   Examiner # : 79180   Date: 6-2-04
Art Unit: 2172   Phone Number 305-3985   Serial Number: 10/083,075
Mail Box and Bldg/Room Location: CPKII 4B2C   Results Format Preferred (circle): (PAPER) DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.
****

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Improved Application Portability and Extensibility Through Database Schema and Query Abstraction
Inventors (please provide full names): DETTINGER, Richard D. ;
Johnson, Peter J. ; STEVENS, Richard J. ; TONG, Ikhua ; WILL, Eric
Earliest Priority Filing Date: 2-26-02

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Concept = Abstract   (See A-3)
           (A method to map logical or customized
            fields to physical fields in the database
            in a query issued by users)

prior problems = (See A-1 ~ A-2)

Claims =   1, 3 (See C)

Figures = Fig 2A (See B)

* Assignee = IBM

****

STAFF USE ONLY	Type of Search		Vendors and cost where applicable
Searcher: David Holloway	NA Sequence (#)		STN
Searcher Phone #: 308-7799	AA Sequence (#)		Dialog
Searcher Location: CPH2 4B30	Structure (#)		Questel/Orbit
Date Searcher Picked Up: 6-8-04	Bibliographic	✓	Dr.Link
Date Completed: 6-9-04	Litigation		Lexis/Nexis
Searcher Prep & Review Time: 60	Fulltext	✓	Sequence Systems
Clerical Prep Time:	Patent Family		WWW/Internet ✓
Online Time: 157	Other		Other (specify)

PTO-1590 (8-01)

STIC Search Report

EIC 2100

STIC Database Tracking Number: 123662

TO: Gwen Liang Location: 4B25 Art Unit : 2172 Wednesday, June 09, 2004 Case Serial Number: 10/083075	From: David Holloway Location: EIC 2100 PK2-4B30 Phone: 308-7794 david.holloway@uspto.gov

Search Notes

Dear Examiner Liang,

Attached please find your search results for above-referenced case.
Please contact me if you have any questions or would like a re-focused search.

David

```
Set      Items   Description
S1          42   AU=(DETTINGER R? OR DETTINGER, R?)
S2        1091   AU=(JOHNSON P? OR JOHNSON, P?)
S3         679   AU=(STEVENS R? OR STEVENS, R?)
S4           3   AU=(TONG I? OR TONG, I?)
S5          61   AU=(WILL E? OR WILL, E?)
S6           1   S1 AND S2 AND S3 AND S4 AND S5
S7          26   (S1 OR S2 OR S3 OR S4 OR S5) AND IC=G06F-007?
S8          11   S7 AND (MAPPING? OR MAPPED OR MAP OR MAPS OR LINK? OR ASSO-
                 CIAT?)
S9           6   S8 AND (QUER? OR INQUIR? OR REQUEST? OR DATA()(MINE? OR MI-
                 NING) OR DATAMINING OR SEARCH()STATEMENT)
S10          3   S9 AND (PHYSICAL OR LOGICAL OR VIRTUAL OR ACTUAL)
S11         11   S6 OR S8
S12         11   IDPAT (sorted in duplicate/non-duplicate order)
S13         11   IDPAT (primary/non-duplicate records only)
File 347:JAPIO Nov 1976-2004/Jan(Updated 040506)
         (c) 2004 JPO & JAPIO
File 348:EUROPEAN PATENTS 1978-2004/Jun W01
         (c) 2004 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20040603,UT=20040527
         (c) 2004 WIPO/Univentio
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200435
         (c) 2004  Thomson Derwent
```

13/5/1   (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

016189026   **Image available**
WPI Acc No: 2004-346912/200432
XRPX Acc No: N04-277521
  **Data accessing method for computerized data storage and retrieval system,
  involves** associating **multiple query conditions with parameter marker
  embedded in query**
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: **DETTINGER R D ; STEVENS R J**
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No   Kind   Date   Applicat No   Kind   Date   Week
US 20040073539 A1 20040415 US 2002268450   A   20021010 200432   B

Priority Applications (No Type Date): US 2002268450 A 20021010
Patent Details:
Patent No   Kind Lan Pg   Main IPC   Filing Notes
US 20040073539 A1   30 G06F-007/00

Abstract (Basic): US 20040073539 A1
      NOVELTY - Multiple query conditions are **associated** with the
  parameter marker embedded in a query. Complete query is built by
  substituting each query condition for the parameter marker. The query
  execution results are received and stored after executing complete
  query against a data source.
      DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
  following:
      (1) computer readable medium storing program for data accessing;
  and
      (2) database system.
      USE - For computerized data storage and retrieval system for data
  processing and data mining, trend analysis and data warehouse
  exploration.
      ADVANTAGE - Generates and executes queries with high level
  parameter markers having multiple **associated** query conditions.
  Facilitates data mining, trend analysis, and data warehouse
  exploration. Enables generating a number of complete queries targeting
  different data groups from a single parameterized query. Facilitates
  building complex queries using large number of query conditions and
  enables to reuse parameter markers in different applications.
      DESCRIPTION OF DRAWING(S) - The figure shows a relational view of
  the software components.
      pp; 30 DwgNo 2/13
Title Terms: DATA; ACCESS; METHOD; COMPUTER; DATA; STORAGE; RETRIEVAL;
  SYSTEM; **ASSOCIATE** ; MULTIPLE; QUERY; CONDITION; PARAMETER; MARK; EMBED;
  QUERY
Derwent Class: T01
International Patent Class (Main): **G06F-007/00**
File Segment: EPI

 13/5/2   · (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

015902856   **Image available**
WPI Acc No: 2004-060696/200406
XRPX Acc No: N04-049139
  **Data record correlation program storage medium for credit card
  transaction, has instructions to map record of one data source to
  internal identifier of record of another data source, if their external
  identifiers are same**
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: TENNER J W; **WILL E W**
Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20030225742 A1		20031204	US 2002161251	A	20020531	200406	B

Priority Applications (No Type Date): US 2002161251 A 20020531
Patent Details:

Patent No	Kind Lan	Pg	Main IPC	Filing Notes
US 20030225742 A1		41	G06F-007/00	

Abstract (Basic): US 20030225742 A1
       NOVELTY - The storage medium stores data record correlation program
    which when executed determines a data record of the extracted data
    source (420), having same external identifier as that of a particular
    data record of real time data source (410). The determined data record
    of extracted data source is **mapped** to an internal identifier
    associated with the particular data record of real time data source.
       DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
    following:
       (1) method of correlating data records of different data sources;
       (2) method of creating data warehouse **mapping** data structure;
       (3) **mapping** data structure;
       (4) data warehouse **mapping** table; and
       (5) computer using data record correlation program storage medium.
       USE - Storage medium for storing program for correlating data
    records of different data sources in data warehouse of credit card
    transaction system of financial institutions.
       ADVANTAGE - Enables efficient correlation between data records of
    two different data sources.
       DESCRIPTION OF DRAWING(S) - The figure shows a schematic view of
    the data management system.
       data management system (400)
       real time data source (410)
       replication software (412)
       extracted data source (420)
       extraction software (422)
       pp; 41 DwgNo 4/11
Title Terms: DATA; RECORD; CORRELATE; PROGRAM; STORAGE; MEDIUM; CREDIT;
   CARD; TRANSACTION; INSTRUCTION; **MAP** ; RECORD; ONE; DATA; SOURCE;
   INTERNAL; IDENTIFY; RECORD; DATA; SOURCE; EXTERNAL; IDENTIFY
Derwent Class: T01; T05
International Patent Class (Main): **G06F-007/00**
File Segment: EPI

 13/5/3   (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

015875906   **Image available**
WPI Acc No: 2004-033737/200403
XRPX Acc No: N04-026818
   **Logical field specification generating method for computer system,
   involves determining data items** associated **with sub-field descriptor,
   by accessing physical entity of data and** linking **each specification
   sub-field to determined item**
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: **DETTINGER R D ; STEVENS R J**
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20030220893 A1		20031127	US 2002153977	A	20020523	200403	B

Priority Applications (No Type Date): US 2002153977 A 20020523
Patent Details:

Patent No	Kind Lan	Pg	Main IPC	Filing Notes
US 20030220893 A1		26	G06F-007/00	

Abstract (Basic): US 20030220893 A1

NOVELTY - Each specification sub-field of a logical field specification template, is designated by a sub-field descriptor. The physical entity of data is accessed, to determine the data items **associated** with the sub-field descriptors. Each of the specification sub-field, is **linked** to corresponding determined data item.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) computer readable medium storing logical field specification generating program; and

(2) data structure in storage medium representing logical field specification.

USE - For accessing and processing data independently regardless of particles architecture, in database management system, for demanding access to specified database.

ADVANTAGE - Applicable to any comparable hardware configuration, regardless of complication of computer system.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the computer system.

computer (102)
server (104)
memory (112)
network (126)
bus (130)
pp; 26 DwgNo 1/8

Title Terms: LOGIC; FIELD; SPECIFICATION; GENERATE; METHOD; COMPUTER; SYSTEM; DETERMINE; DATA; ITEM; **ASSOCIATE** ; SUB; FIELD; DESCRIBE; ACCESS; PHYSICAL; ENTITY; DATA; **LINK** ; SPECIFICATION; SUB; FIELD; DETERMINE; ITEM

Derwent Class: T01
International Patent Class (Main): **G06F-007/00**
File Segment: EPI

13/5/4   (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

015716210   **Image available**
WPI Acc No: 2003-778410/200373
Related WPI Acc No: 2003-778362
XRPX Acc No: N03-623860
  Physical data access provision method for computer system e.g. server computer, involves providing mapping **rules for** mapping **logical fields of query specification to physical entities of data**
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC   )
Inventor: **DETTINGER R D ;   JOHNSON P J ;   STEVENS R J ;   TONG I ;   WILL E**
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20030172056	A1	20030911	US 200283075	A	20020226	200373	B

Priority Applications (No Type Date): US 200283075 A 20020226
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20030172056	A1		13	G06F-007/00	

Abstract (Basic): US 20030172056 A1
    NOVELTY - A query specification (122) containing logical fields for defining an abstract query is provided for an application (120). The **mapping** rules are provided to **map** the logical fields to physical entities of the data to be accessed.

    DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

    (1) method of accessing data having a particular physical data representation;

    (2) computer-readable medium storing program for providing access to data having particular physical data representation;

    (3) computer-readable medium storing program for accessing data

having a particular physical data representation; and
    (4) computer.
        USE - For computer (claimed) e.g. client computer, server computer,
portable computer, embedded controller, personal computer (PC)-based
server, mini computer, midrange computer, mainframe computer.
        ADVANTAGE - The data is accessed in an improved and more flexible
manner. Higher productivity and reduced error rates are achieved during
application development.
        DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of a
computer system.
        operating system (118)
        application (120)
        application query specification (122)
        abstract query interface (130)
        display (142)
        pp; 13 DwgNo 1/4
Title Terms: PHYSICAL; DATA; ACCESS; PROVISION; METHOD; COMPUTER; SYSTEM;
    SERVE; COMPUTER; **MAP** ; RULE; **MAP** ; LOGIC; FIELD; QUERY; SPECIFICATION;
    PHYSICAL; ENTITY; DATA
Derwent Class: T01; T06
International Patent Class (Main): **G06F-007/00**
File Segment: EPI

 13/5/5   (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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015716162   **Image available**
WPI Acc No: 2003-778362/200373
Related WPI Acc No: 2003-778410
XRPX Acc No: N03-623820
    Data modifying method, involves providing abstract model defining
    abstract modification describing data model modification operation which
    is transformed into physical modification by runtime component transforms
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)   *not usuable*
Inventor: **DETTINGER** R D ; LAROCCA J L; **STEVENS R J**
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20030167274	A1	20030904	US 200283075	A	20020226	200373	B
			US 2003403366	A	20030331		

Priority Applications (No Type Date): US 2003403366 A 20030331; US
    200283075 A 20020226
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20030167274	A1		27	G06F-007/00	CIP of application US 200283075

Abstract (Basic): US 20030167274 A1
        NOVELTY - The method involves providing an abstract model that
    defines an abstract modification specification that describes an
    operation to modify the data. The model comprises logical fields and a
    rule that **maps** the logical fields to physical data fields. A run-time
    component transforms the abstract specification into a physical
    modification specification that is consistent with the physical data.
        DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a
    computer readable medium for modifying data.
        USE - Used for modifying data through a logical framework in data
    repositories.
        ADVANTAGE - The abstract representation of a data repository
    enables easy changing of the underlying physical representation without
    affecting the application and further multiple abstract data
    representations can be defined to support different applications
    against the same database schema that may have different default
    values.
        DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram of
    computer architecture employed in a data modifying method.
        Network system (100)

```
          Computer (102)
          Server (104)
          CPU (110)
          Bus (112)
          Network (126)
          pp; 27 DwgNo 1/13
Title Terms: DATA; MODIFIED; METHOD; ABSTRACT; MODEL; DEFINE; ABSTRACT;
  MODIFIED; DESCRIBE; DATA; MODEL; MODIFIED; OPERATE; TRANSFORM; PHYSICAL;
  MODIFIED; COMPONENT; TRANSFORM
Derwent Class: T01
International Patent Class (Main):  G06F-007/00
File Segment: EPI
```

  13/5/6   (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

015319315   **Image available**
WPI Acc No: 2003-380250/200336
XRPX Acc No: N03-303659
  **Data structure for e-commerce application, has protocol information,
  request data format information corresponding to each transaction type
  and input field information**
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC   )
Inventor: O'BRIEN T R; RAPP W C; **STEVENS R J**
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 20030023604	A1	20030130	US 2001837413	A	20010418	200336	B

Priority Applications (No Type Date): US 2001837413 A 20010418
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20030023604	A1		33	G06F-007/00	

Abstract (Basic): US 20030023604 A1
        NOVELTY - The data structure includes protocol information for
    identifying the cXML and mXML protocols and transaction type such as
    the purchase order, remote catalog shopping request and invoice
    request, request data format information corresponding to each
    transaction type containing several input fields and also includes
    input field information for identifying the input fields.
        USE - For e-commerce transactions.
        ADVANTAGE - Allows buyers to communicate with multiple seller
    organizations by providing XML formatted message **mapped** to one or
    more business applications. The use of XML facilitates adding new
    functionality to existing products and maintains the compatibility.
        DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of
    e-commerce environment.
        pp; 33 DwgNo 3/17
Title Terms: DATA; STRUCTURE; APPLY; PROTOCOL; INFORMATION; REQUEST; DATA;
  FORMAT; INFORMATION; CORRESPOND; TRANSACTION; TYPE; INPUT; FIELD;
  INFORMATION
Derwent Class: T01
International Patent Class (Main): G06F-007/00
File Segment: EPI

  13/5/7   (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014959088   **Image available**
WPI Acc No: 2003-019602/200301
Related WPI Acc No: 2003-120180; 2003-120181; 2003-120193; 2003-128759;
  2003-139361; 2003-147996; 2003-147997; 2003-209315; 2003-209317;
  2003-209835; 2003-246817; 2003-255367; 2003-290405; 2003-362346;

tissue population comprising storing structural and cell function indices generated from normal tissue specimens, is new.

DETAILED DESCRIPTION - A computer implemented method for providing information representative of tissue types to a subscriber, comprises:

(a) storing tissue information representative of tissue types in a database, where for each tissue type the database includes structural (including cell density, matrix density, blood vessel density, and layer thickness) and cell function indices (determined by cell function assays) generated from normal tissue specimens obtained from a subset of a population of subjects with shared characteristics, where the indices correspond to statistically significant representations of characteristics of tissue **associated** with the population; and

(b) granting subscribers access to the database in exchange for a subscription fee.

USE - The methods for classifying various types of tissue will provide reliable information at the structural level (1-1000 microns, microscopic). If reliable multi-dimensional tissue structural information was available it would help to enhance and accelerate new advances in tissue engineering, gene discovery and genomics research.

DESCRIPTION OF DRAWING(S) - A flow diagram of a method for profiling samples of normal tissue specimens. Each sample profiled is obtained from a subset of a population of subjects with shared characteristics and used to generate structural, mechanical and cell function indices that correspond to statistically significant representations of characteristics of tissue **associated** with the population.

pp; 68 DwgNo 1/11

Title Terms: COMPUTER; DATABASE; TISSUE; TYPE; INFORMATION; ENGINEERING; CLASSIFY; TISSUE; COMPRISE; STORAGE; STRUCTURE; MECHANICAL; CELL; FUNCTION; INDEX; GENERATE; NORMAL; TISSUE; SPECIMEN

Derwent Class: B04; D16; S03
International Patent Class (Main): G01N-003/00; G01N-033/48; G06F-019/00
International Patent Class (Additional): G01N-033/50; **G06F-007/00** ; G06F-012/00; G06F-017/00; G06F-017/60; G06K-009/00
File Segment: CPI; EPI

13/5/9   (Item 9 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.

01120303   **Image available**
GLOBAL QUERY CORRELATION ATTRIBUTES
ATTRIBUTS GLOBAUX DE CORRELATION DE REQUETE
Patent Applicant/Assignee:
  INTERNATIONAL BUSINESS MACHINES CORPORATION, New Orchard Road, Armonk, NY 10504, US, US (Residence), US (Nationality)
Inventor(s):
  DETTINGER Richard D , 5305 Kensington Lane N.W., Rochester, MN 55901, US

  STEVENS Richard J , 61432 252nd Avenue, Mantorville, MN 55955, US
Legal Representative:
  JOHNSON Grant A (et al) (agent), IBM Corporation, Dept. 917/Bldg. 006-1, 3605 Highway 52 North, Rochester, MN 55901-7829, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200442617 A1 20040521 (WO 0442617)
  Application: WO 2003US33137 20031017 (PCT/WO US03033137)
  Priority Application: US 2002285228 20021031
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW
  (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE SI SK TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/30
International Patent Class: **G06F-007/10**
Publication Language: English
Filing Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 9919

English Abstract
  A system, method and article of manufacture for accessing data are
  disclosed. In general, data access is facilitated by a query (202)
  configured with a correlation criterion or criteria (203). The presence
  of the correlation criteria (203) facilitates the introduction of
  additional correlation logic to be applied to conditions of the query
  (204). In general, correlation criteria (203) are contemplated which
  support correlation of entities based on time, physical location and age,
  for example.

French Abstract
  L'invention concerne un systeme, un procede et un produit de fabrication
  permettant d'acceder a des donnees. En general, l'acces aux donnees est
  facilite par une requete (202) comportant un ou des criteres (203) de
  correlation. La presence de ces criteres (203) de correlation facilite
  l'introduction d'une logique de correlation supplementaire a appliquer a
  des conditions de la requete (204). En general, les criteres (203) de
  correlation supportent la correlation d'entites en fonction, par exemple,
  du temps, de l'emplacement physique et de l'age.

Legal Status (Type, Date, Text)
Publication   20040521 A1 With international search report.

   13/5/10   (Item 10 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.

01028474   **Image available**
METHOD FOR PERFORMING REGISTRATION AUDITS
PROCEDE PERMETTANT D'EFFECTUER DES AUDITS D'ENREGISTREMENT
Patent Applicant/Assignee:
  PERRY L JOHNSON REGISTRARS OF TEXAS L P, 1 Lincoln Center, 5400 LBJ
    Freeway, Suite 445, Dallas, Texas 75240, US, US (Residence), US
    (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
  JOHNSON Perry L , 297 Canterbury Road, Bloomfield Hills, MI 48304-2919,
    US, US (Residence), US (Nationality), (Designated only for: US
Legal Representative:
  BIR David S (et al) (agent), Brooks & Kushman, 1000 Town Center,
    Twenty-Second Floor, Southfield, MI 48075, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200358426 A1 20030717 (WO 0358426)
  Application: WO 2001US50028 20011231 (PCT/WO US0150028)
  Priority Application: WO 2001US50028 20011231
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
  CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
  KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO
  RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: **G06F-007/00**
International Patent Class: G06F-017/60
Publication Language: English
Filing Language: English
Fulltext Availability:
  Detailed Description

```
Set       Items    Description
S1       191072    QUERY OR QUERIES OR QUERYING? OR INQUIR? OR REQUEST? OR SE-
                   ARCH()STATEMENT?
S2       942743    MAP OR MAPS OR MAPPING OR MAPPED OR LINK? OR ASSOCIAT? OR -
                   CORRELAT?
S3         3041    (PHYSICAL? OR ACTUAL OR REAL)(2N)(FIELD? OR ELEMENT? OR EN-
                   TRY OR ENTRIES)
S4         2492    (LOGICAL? OR VIRTUAL OR CUSTOMI?)(2N)(FIELD? OR ELEMENT? OR
                   ENTRY OR ENTRIES)
S5      2873242    TOOL? OR RUNTIME? OR RUN()TIME? OR COMPONENT? OR MODULE?
S6      2535091    TRANSLAT? OR CONVERT? OR CONVERSION? OR MODIF? OR CHANG?
S7           86    ABSTRACTION()LAYER?
S8            5    S1 AND S2 AND S3 AND S4
S9          171    S1 AND S2 AND (PHYSICAL? OR ACTUAL? OR REAL?) AND (LOGICAL?
                   OR VIRTUAL? OR CUSTOMI?) AND S6
S10          28    S9 AND S5
S11          22    S9 AND (MANNER(2N)REPRESENTATION? OR SCHEMA? OR FORMAT?)
S12           2    (S8 OR S10 OR S11) AND IC=G06F-007?
S13          39    (S8 OR S10 OR S11) AND IC=G06F?
S14          40    S8 OR S12 OR S13
S15          40    IDPAT (sorted in duplicate/non-duplicate order)
S16          40    IDPAT (primary/non-duplicate records only)
S17      175630    DATABASE? OR DATABANK? OR DATA()(BASE? OR BANK? OR FILE?) -
                   OR DBMS OR RDBMS OR RDB? OR DB? OR OODB?
S18      175826    S17 OR DATA()REPOSITOR?
S19        4595    S18 AND S6 AND S1
S20         269    S19 AND (ABSTRACTION? OR VIRTUAL? OR CUSTOMI? OR LOGICAL?)
S21       84227    GLOBAL? OR UNIVERSAL? OR (MULTIPL? OR PLURAL? OR MANY OR S-
                   EVERAL?)(3N)(FORMAT? OR APPLICATION? OR REPRESENTATION? OR SC-
                   HEMA?)
S22          17    S21 AND S20
S23          15    S22 NOT S14
S24          13    S23 AND IC=G06F?
S25          13    IDPAT (sorted in duplicate/non-duplicate order)
S26          13    IDPAT (primary/non-duplicate records only)
File 347:JAPIO Nov 1976-2004/Jan(Updated 040506)
         (c) 2004 JPO & JAPIO
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200435
         (c) 2004  Thomson Derwent
```

26/5/5   (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

014261350   **Image available**
WPI Acc No: 2002-082048/200211
Related WPI Acc No: 1999-580004
XRPX Acc No: N02-061094
  Graphic user interface method for browsers, involves translating
  manipulation of graded representation to database query **definition or**
  output representation operation parameter for obtaining output database
  set
Patent Assignee: DOUBLEAGENT LLC (DOUB-N)
Inventor: SZABO A J
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 6326962	B1	20011204	US 96772650	A	19961223	200211	B
			US 99353305	A	19990713		

Priority Applications (No Type Date): US 96772650 A 19961223; US 99353305 A
  19990713
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6326962	B1		32	G06F-013/00	Cont of application US 96772650
					Cont of patent US 5966126

Abstract (Basic): US 6326962 B1
      NOVELTY - A **query** definition or an output representation
  operation is graphically represented as a free form text. The graphical
  representation has a graded representation portion whose grade of
  manipulation is received from the user. The received manipulation of
  the graded representation is **translated** into a **database query**
  definition or output representation operation parameter to obtain
  output **database** set.
      USE - For browser or search engines in computers for performing
  logical or set theory operations on data represented by the graphic
  object.
      ADVANTAGE - **Several** unique graphical **representations** can be
  defined and depicted on the interface either discretely, sequentially
  or simultaneously. Thus, allowing user to define an optimal resulting
  data subset. Hence less complex rule sets can be defined and
  consolidated and the desired information can be analyzed and extracted.

      DESCRIPTION OF DRAWING(S) - The figure shows user interface screen
  illustrating multi-criteria search and graphic indicators of search
  results.
      pp; 32 DwgNo 7/10
Title Terms: GRAPHIC; USER; INTERFACE; METHOD; **TRANSLATION** ; MANIPULATE;
  GRADE; REPRESENT; **DATABASE** ; **QUERY** ; DEFINE; OUTPUT; REPRESENT; OPERATE
  ; PARAMETER; OBTAIN; OUTPUT; **DATABASE** ; SET
Derwent Class: T01
International Patent Class (Main): **G06F-013/00**
File Segment: EPI

014218041   **Image available**
WPI Acc No: 2002-038739/200205
  Method for integrating schema using mql
Patent Assignee: KOREA TELECOM (KOTE-N)
Inventor: HONG Y G; KIM M Y; LEE H S; SONG J W
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
KR 2001054560	A	20010702	KR 9955420	A	19991207	200205	B

Priority Applications (No Type Date): KR 9955420 A 19991207
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
KR 2001054560	A		1	G06F-017/00	

Abstract (Basic): KR 2001054560 A
     NOVELTY - The method for integrating the schema using the
MQL(Multidatabase **Query** Language) is provided to integrate various
database of the informal data type as well as to offer rich semantic
and **abstraction** mechanism by using the schema integration way of the
object relational model base, and to offer a record medium which can
read the program of implementing the schema integration way by a
computer.
     DETAILED DESCRIPTION - A local **database** is registered by using
the MQL in order to integrate the schema. Each MQL command, concerned
to the registered local **database** , is performed. A local **database**
entity is **converted** into a class according to a class creation
command and the class is created. A **virtual** class is created
according to a **virtual** class creation command in order to integrate a
local schema, scattered in the different local **database** , into a
global schema. The MQL command, concerned to the created class and
virtual class, is performed.
     pp; 1 DwgNo 1/10
Title Terms: METHOD; INTEGRATE
Derwent Class: T01
International Patent Class (Main): **G06F-017/00**
File Segment: EPI

012374173   **Image available**
WPI Acc No: 1999-180280/199915
XRPX Acc No: N99-132434
  Integrated database **language statement compilation system**
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: CHOW J; FUH Y; MATTOS N M; TRAN B T
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5875334	A	19990223	US 95548969	A	19951027	199915	B

Priority Applications (No Type Date): US 95548969 A 19951027
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5875334	A		43	G06F-009/45	

Abstract (Basic): US 5875334 A
     NOVELTY - A plan synthesizer (140) synthesizes the output from the
query compiler and the control analyzer by merging a code sequence
generated from the control flow information with the executable plan.
     DETAILED DESCRIPTION - A **query** compiler compiles atleast one
declarative part and generates an executable plan. A control analyzer
generates a representation of control flow information of a control
skeleton (103) which comprises a procedural part separated from the
declarative part. An INDEPENDENT CLAIM is also included for the method
of compiling **database** language statement.
     USE - For compiling SQL3 control statements used in field of
database information processing for multimedia application.
     ADVANTAGE - Enables and enhances the benefits of procedural
constructs such as performance, control **abstraction** , **global**
optimization and generation of efficient executable plans. Does not
modify existing infrastructure of SQL **query** compilers in order to
accommodate control statements. The system is extensible since it
facilitates addition of new functions. Enables efficient execution plan
without special treatment by avoiding redundancy caused by mapping from
procedural semantics to declarative semantics since control skeleton is
not represented in the table oriented QGM. Is easy to implement and has
minimum impact on the existing **query** compiler and no duplicate effort
is undertaken by the compiler in compiling the procedural and
nonprocedural parts of the control statements.
     DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of
the compilation system.
     Control skeleton (103)
     Plan synthesizer (140)
     pp; 43 DwgNo 1/26
Title Terms: INTEGRATE; **DATABASE** ; LANGUAGE; STATEMENT; COMPILE; SYSTEM
Derwent Class: T01
International Patent Class (Main): **G06F-009/45**
File Segment: EPI

26/5/8   (Item 8 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

011536460   **Image available**
WPI Acc No: 1997-512941/199747
XRPX Acc No: N97-426951
   Schema integration method for distributed heterogeneous databases —
   involves defining equivalence of objects of normalised schemas which are
   integrated to produce global object oriented schema which are then
   converted into relational form
Patent Assignee: BULL HN INFORMATION SYSTEMS INC (HONE)
Inventor: FRIESEN O D; GOLSHANI F; HOWELL T H
Number of Countries: 018 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 9738388	A2	19971016	WO 97US5411	A	19970320	199747	B
WO 9738388	A3	19971120	WO 97US5411	A	19970320	199816	
US 5806066	A	19980908	US 96624726	A	19960326	199843	
EP 1012740	A2	20000628	EP 97920038	A	19970320	200035	
			WO 97US5411	A	19970320		

Priority Applications (No Type Date): US 96624726 A 19960326
Cited Patents: US 5560005; No-SR.Pub
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9738388	A2	E	52	G06K-000/00	

   Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LU MC
   NL PT SE

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9738388	A3			G06K-000/00	
US 5806066	A			G06F-017/00	
EP 1012740	A2	E		G06F-017/00	Based on patent WO 9738388

   Designated States (Regional): DE FR GB IT

Abstract (Basic): WO 9738388 A
     The schema integration method involves obtaining the schema of each
   of the independent **DBSs** , and identifying primary keys, foreign keys
   and data dependencies of the schema of each of the two independent
   DBSs . The schemes are **converted** to schemes in object oriented form
   which are normalised.
     The equivalence of objects of the two normalised schemes are
   defined and integrated to produce **global** object oriented schema. The
   schema are then **converted** into relational from SQL commands are
   developed to realise the **global** schema within the DDA as a **virtual
   database** system satisfying all the requirements for accessing data
   from the independent **database** systems.
     USE/ADVANTAGE — Generates and preserves integrated **global** schema
   enabling user to present **queries** against single **global** schema
   without any concern about where data may come from or its physical
   environment. Has intuitive and friendly user interface that assists
   database designer in pre-integration phase.
     Dwg.1/11
Title Terms: INTEGRATE; METHOD; DISTRIBUTE; HETEROGENEOUS; DEFINE;
   EQUIVALENCE; OBJECT; NORMALISE; INTEGRATE; PRODUCE; GLOBE; OBJECT; ORIENT
   ; **CONVERT** ; RELATED; FORM
Derwent Class: T01
International Patent Class (Main): **G06F-017/00** ; G06K-000/00
International Patent Class (Additional): **G06F-017/30**
File Segment: EPI

26/5/9   (Item 9 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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011319758   **Image available**
WPI Acc No: 1997-297662/199727
XRPX Acc No: N97-246013
   **FIM system for integrating data from multiple interconnected local
   databases to provide users with access to** virtual   database   - has
   user interface for generating global   query **to search** virtual
   database **, DIM that decomposes** global   query **into local** queries **, and
   number of LIMs that execute local** queries **to search enumerated**
   databases
Patent Assignee: HUGHES AIRCRAFT CO (HUGA)
Inventor: NOBLE W B; PATEL B K; WANG J K
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5634053	A	19970527	US 95521340	A	19950829	199727	B

Priority Applications (No Type Date): US 95521340 A 19950829
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5634053	A		21	G06F-017/30	

Abstract (Basic): US 5634053 A

      The **database** controller comprises the user interface for
   generating a **global   query** to search the **virtual   data   base** ,
   which has an associated **global** format, the **global   query** including
   at least one data field from a set of commonly used data fields whose
   values are represented in an input format. A smart data dictionary
   (SDD) contains configuration data for each of the local **databases**
   including respective local formats for each of the commonly used data
   fields. A selector selects the input format for generating the **global
    query** from one of the **global** and local formats. An input
   translator   converts the value of the data field in the **global
   query** into local values in the respective local formats.
      The data information manager (DIM) generates local **queries**
   including the local values for the data field in response to the
   global   query and in accordance with the respective configuration
   data. A number of local information managers (LIMs) execute the local
   queries to search for and retrieve from the respective local
   databases data that is associated with the local values of the data
   field, the LIMs passing the data back to the dimension where it is
   combined to present the **requesting** user with an integrated response.
   An output **translator   converts** the data passed back from the LIMs
   from their respective local formats into the input format so that the
   data can be combined to present the user with the integrated response.
      ADVANTAGE - Efficiently and truly integrates data from number of
   interconnected and heterogeneous local **databases** to provide user's
   with access to **virtual   database** . Better user friendliness.
   Increases completeness of search.
      Dwg.1/11
Title Terms: SYSTEM; INTEGRATE; DATA; MULTIPLE; INTERCONNECT; LOCAL; USER;
  ACCESS; **VIRTUAL** ; **DATABASE** ; USER; INTERFACE; GENERATE; GLOBE; **QUERY** ;
  SEARCH; **VIRTUAL** ; **DATABASE** ; DIM; DECOMPOSE; GLOBE; **QUERY** ; LOCAL;
  QUERY ; NUMBER; EXECUTE; LOCAL; **QUERY** ; SEARCH
Index Terms/Additional Words: **DATA_IN   FORMATIO   N_MAN   AGER_LO   CAL_INFO
  RMATI   ON_MA   NAGER** ; INFORMATION; MANAGER; LOCAL; INFORMATION; MANAGER
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
International Patent Class (Additional): **G06F-015/16**
File Segment: EPI

03526844   **Image available**
DATA   BASE CONTROL SYSTEM

PUB. NO.:   03-189744 [JP 3189744 A]
PUBLISHED: August 19, 1991 (19910819)
INVENTOR(s):   ARIAKE TOMOJI
APPLICANT(s):   NEC CORP [000423] (A Japanese Company or Corporation), JP
                 (Japan)
APPL. NO.:   01-330823 [JP 89330823]
FILED: December 19, 1989 (19891219)
INTL CLASS: [5] **G06F-012/00**
JAPIO CLASS: 45.2 (INFORMATION PROCESSING -- Memory Units)
JOURNAL: Section: P, Section No. 1276, Vol. 15, No. 451, Pg. 18,
                 November 15, 1991 (19911115)

ABSTRACT

PURPOSE: To facilitate the **change** , etc., of a **logical** scheme by adding
the information to identify a **logical** scheme storage storing the **logical**
 schema corresponding to an optional physical schema as the information to
be stored in the physical schema.
CONSTITUTION: A **logical**   schema 2 is retrieved based on the name of the
schema 2 and the **logical** schema storage identification information held
by a physical schema 4. Thus it is possible to retrieve the schema 2 from
the **logical** and physical schema names owned by each data processing
instruction even if **plural** **schemata** 2 have the same names and the data
processing **requests** using these shemata 2 are produced at one time.
Furthermore the data processing instructions using **plural** **logical**
 schemata having the same names are executed at one time.

```
Set     Items      Description
S1     1578788     QUERY OR QUERIES OR QUERYING? OR INQUIR? OR REQUEST? OR SE-
                   ARCH()STATEMENT?
S2      864329     MAP OR MAPS OR MAPPING OR MAPPED OR LINK? OR ASSOCIAT? OR -
                   CORRELAT?
S3       10678     (PHYSICAL? OR ACTUAL OR REAL)(2N)(FIELD? OR ELEMENT? OR EN-
                   TRY OR ENTRIES)
S4        4368     (LOGICAL? OR VIRTUAL OR CUSTOMI?)(2N)(FIELD? OR ELEMENT? OR
                   ENTRY OR ENTRIES)
S5      916515     TOOL? OR RUNTIME? OR RUN()TIME? OR COMPONENT? OR MODULE?
S6     1766863     TRANSLAT? OR CONVERT? OR CONVERSION? OR MODIF? OR CHANG?
S7         545     ABSTRACTION()LAYER?
S8           9     S1(10N)S2(10N)S3(10N)S4
S9         332     S1(8N)S2(10N)(PHYSICAL? OR ACTUAL? OR REAL?)(15N)(LOGICAL?
                   OR VIRTUAL? OR CUSTOMI?)(S)S6
S10         29     S1(5N)S2(5N)(PHYSCAL? OR ACTUAL? OR REAL?)(5N)(LOGICAL? OR
                   VIRTUAL? OR CUSTOMI?)(S)S6
S11     198900     DATABASE? OR DATABANK? OR DATA()(BASE? OR BANK? OR REPOSIT-
                   OR?) OR DBMS OR RDBMS OR RDB? OR DB? OR OODB?
S12       3953     S6(10N)S1(10N)S11
S13        121     S12(10N)(ABSTRACTION? OR VIRTUAL? OR CUSTOMI? OR LOGICAL?)
S14          6     S13 AND IC=G06F-007?
S15        126     S6(5N)S1(5N)S11(5N)(ABSTRACT? OR VIRTUAL? OR CUSTOMI? OR L-
                   OGICAL?)
S16          6     S15 AND IC=G06F-007?
S17         21     S15(12N)S2
S18         30     S15(7N)S5
S19          4     (S17 OR S18) AND IC=G06F-007?
S20         41     (S17 OR S18) AND IC=G06F?
S21       2030     S11(4N)(GLOBAL? OR UNIVERSAL? OR (MULTIPL? OR PLURAL OR PL-
                   URALITY OR MANY OR SEVERAL?)(2N)(FORMAT? OR SCHEMA OR SCHEMAS
                   OR REPRESENTATION? OR APPLICATION?))
S22          6     S21(S)S20
S23         17     S21(S)S13
S24         24     S10 AND IC=G06F?
S25         24     S14 OR S16 OR S19 OR S22 OR S23
S26         24     IDPAT (sorted in duplicate/non-duplicate order)
S27         23     IDPAT (primary/non-duplicate records only)
File 348:EUROPEAN PATENTS 1978-2004/Jun W01
        (c) 2004 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20040603,UT=20040527
        (c) 2004 WIPO/Univentio
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27/3,K/1   (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00502931
DISK ARRAY SYSTEM AND METHOD
NETZWERKPLATTENSYSTEM UND METHODE
SYSTEME ET METHODE DE PILE DE DISQUES
PATENT ASSIGNEE:
  EMC CORPORATION, (1739001), 171 South Street, Hopkinton, MA 01748-9103,
    (US), (applicant designated states: DE;FR;GB;IT)
INVENTOR:
  IDLEMAN, Thomas, E., 2660 Brady Court, Santa Clara, CA 95051, (US)
  KOONTZ, Robert, S., 140 Walsh Avenue, Atherton, CA 94025, (US)
  POWERS, David, T., 2265 Bayo Claros Circle, Morgan Hill, CA 95037, (US)
  JAFFE, David, H., 551 South Road, Belmont, CA 94002, (US)
  HENSON, Larry P., 692 Fairlane Avenue, Santa Clara, CA 95051, (US)
  GLIDER, Joseph, S., 3292 Murray Way, Palo Alto, CA 94303, (US)
  GAJJAR, Kumar, 1700 Fan Street, San Jose, CA 95131, (US)
LEGAL REPRESENTATIVE:
  Grunecker, Kinkeldey, Stockmair & Schwanhausser Anwaltssozietat (100721)
    , Maximilianstrasse 58, 80538 Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 517857 A1 921216 (Basic)
                              EP 517857 A1 950607
                              EP 517857 B1 981223
                              WO 9113399 910905
APPLICATION (CC, No, Date):   EP 91907076 910228; WO 91US1276 910228
PRIORITY (CC, No, Date): US 488749 900302; US 505622 900406; US 506703
    900406; US 601482 901022
DESIGNATED STATES: DE; FR; GB; IT
INTERNATIONAL PATENT CLASS: **G06F-007/22** ; G06F-011/10; G11B-020/18;
  G06F-011/20
NOTE:
  No A-document published by EPO
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:
Available Text   Language   Update   Word Count
       CLAIMS B (English)   9852   918
       CLAIMS B (German)   9852   881
       CLAIMS B (French)   9852   1129
       SPEC B   (English)   9852   21325
Total word count - document A   0
Total word count - document B   24253
Total word count - documents A + B   24253

INTERNATIONAL PATENT CLASS: **G06F-007/22** ...

...SPECIFICATION a parallel set, the mapping from unit address to physical
  address spaces must be made. **Mapping** is a matter of examining the
  configuration **database** to **translate** : (1) from a unit **logical**
  address span specified in the I/O **request** to a sequence of data group
  address spans; (2) from the sequence of data group...

00784140
A SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR A GLOBALLY ADDRESSABLE
     INTERFACE IN A COMMUNICATION SERVICES PATTERNS ENVIRONMENT
SYSTEME,   PROCEDE   ET   ARTICLE   DE FABRICATION S'APPLIQUANT DANS UN
     ENVIRONNEMENT DE STRUCTURE DE SERVICES DE COMMUNICATIONS VIA UNE
     INTERFACE ADRESSABLE GLOBALEMENT
Patent Applicant/Assignee:
  ACCENTURE LLP, 1661 Page Mill Road, Palo Alto, CA 94304, US, US
     (Residence), US (Nationality)
Inventor(s):
  BOWMAN-AMUAH Michel K, 6426 Peak Vista Circle, Colorado Springs, CO 80918
     , US,
Legal Representative:
  HICKMAN Paul L (agent), Oppenheimer Wolff & Donnelly, LLP, 1400 Page Mill
     Road, Palo Alto, CA 94304, US,
Patent and Priority Information (Country, Number, Date):
  Patent: WO 200116735 A2-A3 20010308 (WO 0116735)
  Application: WO 2000US24198 20000831 (PCT/WO US0024198)
  Priority Application: US 99387214 19990831
Designated States: AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CU CZ DE DK
  DZ EE ES FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT
  LU LV MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR
  TT UA UG UZ VN YU ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 150371

Fulltext Availability:
  Detailed Description

Detailed Description
... Figure 88 illustrates the method in which the present invention
  registers and then locates a
   Globally Addressable Interface;
  Figure 89 illustrates the manner in which the present invention uses a
  Globally...a Generic Message Forwarding feature;
  Figure 185 illustrates a flowchart for a method for batching logical
   requests for reducing network
  traffic in accordance with an embodiment of the present invention;
  Figure 186 illustrates the manner in which the present invention sends
   requests independently; Figure 187 illustrates a manner in which the
  present invention registers requests ; Figure 188 illustrates a
  flowchart for a method for sorting requests that are being unbatched
  from a batched message in accordance with an embodiment of the...

...Ad Hoc Registration feature;
  Figure 190 illustrates a manner in which the present invention sorts
   requests by weight; Figure 191 illustrates a flowchart for a method for
  assigning independent copies of business data to concurrent logical
  units of work for helping prevent the logical units of work from
  interfering with each...

...accordance with an embodiment of the present invention;
  Figure 192 illustrates the MVC Implementation with Global Model;
  Figure 193 illustrates the Separate Models for Separate Business LUWs;
  Figure 194 illustrates the...required multiple physical transactions. For
  example, in a package or legacy rich environment, the single logical
  transaction of changing a customer address may require the partitioning
  and coordination of several physical transactions to multiple
   application systems or databases . Transaction Partitioning Services

provide the application with a simple single transaction view.
Implementation considerations
Must...is done on the client machine using hidden fields, global
variables, messages, files or local **databases** .

The popularity of the Internets HTTP protocol has revived the potential
need for implementing some...

```
Set        Items     Description
S1        191072     QUERY OR QUERIES OR QUERYING? OR INQUIR? OR REQUEST? OR SE-
                     ARCH()STATEMENT?
S2        942743     MAP OR MAPS OR MAPPING OR MAPPED OR LINK? OR ASSOCIAT? OR -
                     CORRELAT?
S3          3041     (PHYSICAL? OR ACTUAL OR REAL)(2N)(FIELD? OR ELEMENT? OR EN-
                     TRY OR ENTRIES)
S4          2492     (LOGICAL? OR VIRTUAL OR CUSTOMI?)(2N)(FIELD? OR ELEMENT? OR
                     ENTRY OR ENTRIES)
S5       2873242     TOOL? OR RUNTIME? OR RUN()TIME? OR COMPONENT? OR MODULE?
S6       2535091     TRANSLAT? OR CONVERT? OR CONVERSION? OR MODIF? OR CHANG?
S7            86     ABSTRACTION()LAYER?
S8             5     S1 AND S2 AND S3 AND S4
S9           171     S1 AND S2 AND (PHYSICAL? OR ACTUAL? OR REAL?) AND (LOGICAL?
                     OR VIRTUAL? OR CUSTOMI?) AND S6
S10           28     S9 AND S5
S11           22     S9 AND (MANNER(2N)REPRESENTATION? OR SCHEMA? OR FORMAT?)
S12            2     (S8 OR S10 OR S11) AND IC=G06F-007?
S13           39     (S8 OR S10 OR S11) AND IC=G06F?
S14           40     S8 OR S12 OR S13
S15           40     IDPAT (sorted in duplicate/non-duplicate order)
S16           40     IDPAT (primary/non-duplicate records only)
File 347:JAPIO Nov 1976-2004/Jan(Updated 040506)
         (c) 2004 JPO & JAPIO
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200435
         (c) 2004  Thomson Derwent
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DIALOG(R)File 350:Derwent WPIX
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014366806   **Image available**
WPI Acc No: 2002-187508/200224
XRPX Acc No: N02-142143
   Segue component   linked **to one or more applications in a computer
   system and connected to transport medium; parses extracted data, for**
   converting **it into executable form, and for delivering to target agent's**
   logical **frame**
Patent Assignee: MISHRA S N (MISH-I)
Inventor: MISHRA S N
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 6345315	B1	20020205	US 9755558	P	19970813	200224	B
			US 98133772	A	19980812		

Priority Applications (No Type Date): US 9755558 P 19970813; US 98133772 A
   19980812
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6345315	B1		17	G06F-009/00	Provisional application US 9755558

Abstract (Basic): US 6345315 B1
      NOVELTY - Applications (22,32) always deliver a preformed **logical**
   frame to segue **component** (40) for **conversion** into a **physical**
   frame. Likewise, the segue **component** (40) always delivers a preformed
    logical frame to the application (22,32) after the data is extracted
   and parsed from the incoming **physical** frame and has been **converted**
   into a **logical** frame usable by the respective application.
      DETAILED DESCRIPTION - The **logical** frame reveals a name field
   (43) and a value field (44) **associated** with the **requested** operation
   (42). The user **requested** an operation (42) bearing the name 'FOO'
   (43) which has a value (44) of 'WXYZ'. This data is collected by the
   segue **component** (40) and, if no **changes** or further interaction
   follows, the segue **component** (40) **converts** the data from Unicode
   into byte-oriented data and packages it into the appropriate fields of
   the **physical** frame. The applications (22), (32) always receive from
   and deliver to the segue **component** (40) a preformed **logical** frame.
      An INDEPENDENT CLAIM is included for:
      (a) a method for transporting data in a platform independent and
   protocol independent manner between one or more clients of a computer
   system and one or more servers of a computer system
      USE - As platform- and protocol-independent communication for
   access to printer, scanner, telephone, FAX, camera, microphone, audio
   system, machine **tools** , alarm system, monitoring system, or other
   similar device, system, or appliance.
      ADVANTAGE - Creates a protocol-independent communication and
   hardware-independent software at both ends.
      DESCRIPTION OF DRAWING(S) - The drawing illustrates the structure
   of the **logical** frame and the **physical** frame of the present
   invention.
      applications (22,32)
      segue **component** (40)
       requested operation (42)
      name field (43)
      value field (44)
      pp; 17 DwgNo 10/15
Title Terms: **COMPONENT** ; **LINK** ; ONE; MORE; APPLY; COMPUTER; SYSTEM;
   CONNECT; TRANSPORT; MEDIUM; EXTRACT; DATA; **CONVERT** ; EXECUTE; FORM;
   DELIVER; TARGET; AGENT; LOGIC; FRAME
Derwent Class: T01
International Patent Class (Main): **G06F-009/00**
File Segment: EPI

013905373   **Image available**
WPI Acc No: 2001-389586/200141
XRPX Acc No: N01-286593
   Customized **data rendering method e.g. for hypertext markup language,
   involves retrieving current value of data element from source and
   translating using pre selected language** translator
Patent Assignee: EVERYPATH INC (EVER-N)
Inventor: GOEL P; IYER P; KROTHAPALLI P; MAK R; MOHINDRA R; SINHA A; VITTAL
   S
Number of Countries: 091 Number of Patents: 006
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200118692	A2	20010315	WO 2000US24546	A	20000906	200141	B
AU 200073552	A	20010410	AU 200073552	A	20000906	200142	
KR 2002042831	A	20020607	KR 2002703231	A	20020311	200278	
EP 1344149	A2	20030917	EP 2000961628	A	20000906	200362	
			WO 2000US24546	A	20000906		
JP 2003532129	W	20031028	WO 2000US24546	A	20000906	200373	
			JP 2001522435	A	20000906		
CN 1461445	A	20031210	CN 2000814425	A	20000906	200415	

Priority Applications (No Type Date): US 99393133 A 19990910
Patent Details:

Patent No	Kind Lan Pg	Main IPC	Filing Notes
WO 200118692	A2 E 31	G06F-017/30	

   Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN
   CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
   KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE
   SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
   Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
   IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

Patent No	Kind Lan Pg	Main IPC	Filing Notes
AU 200073552	A	G06F-017/30	Based on patent WO 200118692
KR 2002042831	A	G06F-017/30	
EP 1344149	A2 E	G06F-017/30	Based on patent WO 200118692

   Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
   LI LT LU LV MC MK NL PT RO SE SI

Patent No	Kind Lan Pg	Main IPC	Filing Notes
JP 2003532129	W 35	G10L-013/06	Based on patent WO 200118692
CN 1461445	A	G06F-017/30	

Abstract (Basic): WO 200118692 A2
     NOVELTY - Signature is retrieved from source data memory in
response to **query** from a user. Current value of data element
designated by the signature, is retrieved from the source. The current
value is **translated** through pre selected language **translator** (20)
and output to the user.
     DETAILED DESCRIPTION - The pre selected language **translator** used
for **translating** the current value of the data element, is a text to
speech **translator** or a set of stored aural expressions **mapped** to
pre selected values for each of the data element. INDEPENDENT CLAIMS
are also included for the following:
     (a) System for rendering representation of two-dimensional data;
     (b) Program product;
     (c) Method for providing interactive user access to web page
information
     USE - For rendering **customized** two-dimensional data such as data
in hypertext markup language, in different **formats** including aural
and limited visual **formats** .
     ADVANTAGE - HTML pages can be represented by regular expressions.
Permits values to be dynamically updated and rendered with the current
value, since only data elements need to be selected and the **actual**
values need not be selected.
     DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of
system for retrieving information from HTML page.
     Translator (20)
     pp; 31 DwgNo 1/2

Title Terms: **CUSTOMISATION** ; DATA; RENDER; METHOD; LANGUAGE; RETRIEVAL;
  CURRENT; VALUE; DATA; ELEMENT; SOURCE; **TRANSLATION** ; PRE; SELECT;
  LANGUAGE; **TRANSLATION**
Derwent Class: P86; T01
International Patent Class (Main): **G06F-017/30** ; G10L-013/06
International Patent Class (Additional): **G06F-017/21** ; **G06F-017/24** ;
  G10L-013/00; G10L-013/08
File Segment: EPI; EngPI

DIALOG(R)File 350:Derwent WPIX
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011843968   **Image available**
WPI Acc No: 1998-260878/199823
XRPX Acc No: N98-205705
   Database generic composite structure processing system - includes
   optimising process unit which evaluates cost of access which uses global
   index information based on definition information
Patent Assignee: FUJITSU LTD (FUIT)
Inventor: HAYASHI K; HAYASHI T; ISHII T; MITANI M; OBATA T; OHSATO H;
   SAITOU K; SEKINE Y; URA M
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5742809	A	19980421	US 91745258	A	19910814	199823	B
			US 95427713	A	19950421		
			US 97899150	A	19970723		

Priority Applications (No Type Date): JP 90231450 A 19900831; JP 90231448 A
   19900831
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5742809	A		25	G06F-017/30	Cont of application US 91745258
					Cont of application US 95427713

Abstract (Basic): US 5742809 A
       The system includes a unit (10) for generating a generic composite
   structure definition between multiple **logical** structure and multiple
   composite structure using any one of the mappings such as simple
   mapping , multiple **mapping** , column selection **mapping** or overlapping
    mapping . An optimising process unit (12) **modifies** a **query** (11)
   written in the **logical** structure according to the generic composite
   structure and generates an access schedule based on the **modified**
   query .
       Based on the access schedule an executable **module** is generated. A
   memory stores the data expressed by the **logical** structure into
   multiple composite structure each of which has an independent data
   organisation. A dictionary stores the definition information of an
   index as a global index information. The optimising process unit
   evaluates the cost of access which uses the global index information
   based on definition information stored in the dictionary and an access
   which does not use the global index information.
       ADVANTAGE - Improves retrieval efficiency of composite structure.
   Performs efficient operation. Generates optimum database according to
   data characteristics easily. **Realizes** highly independent storage
   structure.
       Dwg.3/15
Title Terms: DATABASE; COMPOSITE; STRUCTURE; PROCESS; SYSTEM; OPTIMUM;
   PROCESS; UNIT; EVALUATE; COST; ACCESS; GLOBE; INDEX; INFORMATION; BASED;
   DEFINE; INFORMATION
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
File Segment: EPI

16/5/18   (Item 18 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

011813263   **Image available**
WPI Acc No: 1998-230173/199820
XRPX Acc No: N98-182323
   **CASE-based relational database access consistency system - includes
   logical to physical data mapping and join tables with queries
   formed using data mapping and join criteria tables**
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: KINGBERG D G; MARTIN W J; MCCUBBIN E M
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5734887	A	19980331	US 95536737	A	19950929	199820	B

Priority Applications (No Type Date): US 95536737 A 19950929
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5734887	A		50	G06F-017/30	

Abstract (Basic): US 5734887 A
     The database access system includes one or more applications having
   a **logical** data access interface for **requesting** data access
   according to a **logical** data model. The data model has numerous
   interrelated **logical** entity types each with numerous **logical**
   attributes. A RDBMS contains numerous **physical** tables derived from
   the **logical** data model, each having numerous columns. A **logical** to
   physical data **mapping** table **maps** each **logical** entity type and
   logical attribute pair to a **physical** table name and a **physical**
   column name as stored in the RDBMS.
     A join table has a join **entry** for each **logical** entity type
   represented by more than one **physical** table in the RDBMS. Each join
   entry identifies the **physical** tables and columns to join, and the
   join criteria necessary to form the **logical** entity type represented
   by the join **entry** . A **logical** data access **module** receives a
   logical database **request** from a **requesting** application via it's
   logical data interface. One or more database **queries** having
   physical table and **physical** column names are formed using the
   logical to **physical** data **mapping** and join criteria tables.
     ADVANTAGE - Allows **change** in **physical** structure of database
   tables without **changing** client applications. Allows DBA to tune
   database without **changing** client applications. Application can update
   views without knowing **physical** table names used in constructing view.
   Permits re-engineering database for maximum performance without
   modifying applications. Provides **logical** views without knowing join
   criteria.
     Dwg.3/16
Title Terms: CASE; BASED; RELATED; DATABASE; ACCESS; CONSISTENCY; SYSTEM;
   LOGIC; **PHYSICAL** ; DATA; **MAP** ; JOIN; TABLE; **QUERY** ; FORMING; DATA; **MAP**
   ; JOIN; CRITERIA; TABLE
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
File Segment: EPI

DIALOG(R)File 350:Derwent WPIX
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011200824   **Image available**
WPI Acc No: 1997-178749/199716
Related WPI Acc No: 1998-120257
XRPX Acc No: N97-147404
  **Multi-model DBMS engine for complex data model database - has user
  application and application program interface, database server,** schema
  for translating **data** format **into data model** format **comprising owner
  records and member records,** linked **by dynamic pointer arrays**
Patent Assignee: MICRO DATA BASE SYSTEMS INC (MICR-N)
Inventor: DURFLINGER K; LOGAN K M; REID J D
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5611076	A	19970311	US 94309909	A	19940921	199716	B

Priority Applications (No Type Date): US 94309909 A 19940921
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5611076	A		43	G06F-017/30	

Abstract (Basic): US 5611076 A
     The multi-model database management system (DBMS) presents to its
users a variety of **logical** models, or views of stored data, using
industry-standard interfaces, while the **physical** storage of data is
managed in a manner that closely follows the data model. Databases are
built from sets of records using the entity-relationship data model.
     Space is reserved in each owner record for a set pointer pointing
to either a member record or a Dynamic Pointer Array (DPA) structure
that relates the owner record to member records. The DPA itself
contains set pointers to all of the related member records.
     Each member record, in turn, has a set pointer pointing back to a
particular owner record, or, in certain instances, to another DPA. In
such cases, the DPA contains set pointers pointing to all of the
related owner records. The DBMS supports a variety of **logical** models
including the relational model, and further supports industry-standard
Application Program Interfaces using SQL **query** access language.
     ADVANTAGE - Stores complex data according to entity-relationship
data model. Efficient **physical** storage of data relationships.
     Dwg.20/27
Title Terms: MULTI; MODEL; ENGINE; COMPLEX; DATA; MODEL; DATABASE; USER;
  APPLY; APPLY; PROGRAM; INTERFACE; DATABASE; SERVE; **TRANSLATION** ; DATA;
  FORMAT ; DATA; MODEL; **FORMAT** ; COMPRISE; OWNER; RECORD; MEMBER; RECORD;
  LINK ; DYNAMIC; POINT; ARRAY
Derwent Class: T01
International Patent Class (Main): **G06F-017/30**
File Segment: EPI

DIALOG(R)File 350:Derwent WPIX
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009730239   **Image available**
WPI Acc No: 1994-010089/199402
Related WPI Acc No: 1999-083811; 2000-368077; 2000-424820
XRPX Acc No: N94-008113
   **Storing data of compound document in e.g. word processor - involves
   accessing document using functions of layer which maps   requests to
   store data to storage format**
Patent Assignee: MICROSOFT CORP (MICT)
Inventor: ATKINSON R G; BLISS A L; LAFORNARA P J; LJUBICICH P; TILLES A G;
   WILLIAMS A S
Number of Countries: 020 Number of Patents: 014
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 578204	A2	19940112	EP 93110796	A	19930706	199402	B
CA 2099911	A	19940107	CA 2099911	A	19930706	199412	
EP 578204	A3	19940324				199521	
US 5506983	A	19960409	US 92909533	A	19920706	199620	
US 5706504	A	19980106	US 92909533	A	19920706	199808	
			US 95477925	A	19950607		
US 5715441	A	19980203	US 92909533	A	19920706	199812	
			US 95474100	A	19950607		
EP 578204	B1	19990414	EP 93110796	A	19930706	199919	
			EP 98118766	A	19930706		
DE 6920324410	E	19990520	DE 93624410	A	19930706	199926	
			EP 93110796	A	19930706		
CA 2320674	A1	19940107	CA 2099911	A	19930706	200103	
			CA 2320674	A	19930706		
CA 2320675	A1	19940107	CA 2099911	A	19930706	200103	
			CA 2320675	A	19930706		
CA 2099911	C	20011127	CA 2099911	A	19930706	200202	
KR 287046	B	20010416	KR 9312824	A	19930706	200219	
CA 2320675	C	20040413	CA 2099911	A	19930706	200426	
			CA 2320675	A	19930706		
CA 2320674	C	20040427	CA 2099911	A	19930706	200430	
			CA 2320674	A	19930706		

Priority Applications (No Type Date): US 92909533 A 19920706; US 95477925 A
   19950607; US 95474100 A 19950607
Cited Patents: No-SR.Pub; 3.Jnl.Ref; US 5093779
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 578204	A2	E	33	G06F-015/413	

   Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC
   NL PT SE

CA 2099911	A			G06F-013/38	
US 5506983	A		27	G06F-017/30	
US 5706504	A		28	G06F-012/02	Div ex application US 92909533
					Div ex patent US 5506983
US 5715441	A		27	G06F-017/30	Div ex application US 92909533
					Div ex patent US 5506983
EP 578204	B1	E		G06F-017/00	Related to application EP 98118766
					Related to patent EP 892355

   Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC
   NL PT SE

DE 6920324410	E			G06F-017/00	Based on patent EP 578204
CA 2320674	A1	E		G11C-007/00	Div ex application CA 2099911
CA 2320675	A1	E		G11C-007/00	Div ex application CA 2099911
CA 2099911	C	E		G06F-013/38	
KR 287046	B			G06F-009/24	
CA 2320675	C	E		G11C-007/00	Div ex application CA 2099911
CA 2320674	C	E		G11C-007/00	Div ex application CA 2099911

Abstract (Basic): EP 578204 A
          The method for storing the data of a compound document involves

storing data which is **logically** contiguous in several **physically** non-contiguous areas on a storage device. Header information which has a pointer to a doubly indirect file allocation table is stored.

A doubly indirect file allocation table pointing to a file allocation table is stored. A file allocation table which **links physically** non-contiguous areas in a **logically** contiguous manner is stored.

ADVANTAGE - Efficient layout organisation. Can be used on arbitrary storage medium.

Dwg.1/18

Title Terms: STORAGE; DATA; COMPOUND; DOCUMENT; WORD; PROCESSOR; ACCESS; DOCUMENT; FUNCTION; LAYER; **MAP** ; **REQUEST** ; STORAGE; DATA; STORAGE; **FORMAT**

Derwent Class: T01

International Patent Class (Main): **G06F-009/24** ; **G06F-012/02** ; **G06F-013/38** ; **G06F-015/413** ; **G06F-017/00** ; **G06F-017/30** ; G11C-007/00

International Patent Class (Additional): **G06F-007/02** ; **G06F-015/403**

File Segment: EPI

07828951   **Image available**
DYNAMIC END USER SPECIFIC **CUSTOMIZATION** OF APPLICATION'S **PHYSICAL** DATA
LAYER THROUGH DATA REPOSITORY ABSTRACTION LAYER

PUB. NO.:   2003-323324 [JP 2003323324 A]
PUBLISHED: November 14, 2003 (20031114)
INVENTOR(s):   DETTINGER RICHARD DEAN
               STEVENS RICHARD JOSEPH
APPLICANT(s): INTERNATL BUSINESS MACH CORP (IBM)
APPL. NO.:   2003-117893 [JP 2003117893]
FILED: April 23, 2003 (20030423)
PRIORITY: 02 132228 [US 2002132228], US (United States of America),
               April 25, 2002 (20020425)
INTL CLASS: **G06F-012/00**

ABSTRACT
PROBLEM TO BE SOLVED: To provide a system, a method, and an article of
manufacture for independently providing access to data from a specific
shape of **physically** expressing the data.

SOLUTION: One embodiment provides different **logical** views of a data
repository being the same basis by a plurality of data repository
abstraction. A plurality of respective data repository abstraction can be
associated to different users, and different data sets are thereby
disclosed to the respective users. A **run time component converts** an
abstract **inquiry** into a shape usable for specific **physical** data
expression.

bad date
Same assignee

```
Set      Items    Description
S1        6999    QUERY OR QUERIES OR QUERYING? OR INQUIR? OR REQUEST? OR SE-
                  ARCH()STATEMENT?
S2       23860    MAP OR MAPS OR MAPPING OR MAPPED OR LINK? OR ASSOCIAT? OR -
                  CORRELAT?
S3          57    (PHYSICAL? OR ACTUAL OR REAL)(2N)(FIELD? OR ELEMENT? OR EN-
                  TRY OR ENTRIES)
S4         173    (LOGICAL? OR VIRTUAL OR CUSTOMI?)(2N)(FIELD? OR ELEMENT? OR
                  ENTRY OR ENTRIES)
S5       47569    TOOL? OR RUNTIME? OR RUN()TIME? OR COMPONENT? OR MODULE?
S6       19445    TRANSLAT? OR CONVERT? OR CONVERSION? OR MODIF? OR CHANG?
S7          60    ABSTRACTION()LAYER?
S8           0    S1 (10N) S2 (10N) S3 (10N) S4
S9           1    S1 (10N) S2 (10N) (PHYSICAL? OR ACTUAL? OR REAL?) (10N) (L-
                  OGICAL? OR VIRTUAL? OR CUSTOMI?) AND S6
S10          1    S9 (S) S5
S11          1    S2 (S) S3 (S) S4
S12          0    S3 (10N) S4 (10N) S5 (10N) (S6 OR S7)
S13      19692    DATABASE? OR DATABANK? OR DATA()(BASE? OR BANK? OR REPOSIT-
                  OR?) OR DBMS OR DB OR DBS OR OODB OR OODBS OR RDB?
S14        119    S6 (10N) S13 (10N) S1
S15          0    S14 AND (S3 OR S4)
S16          0    S14 AND S5 AND S7
S17         62    S14 AND S5
S18         17    S17 AND S2
S19         19    S18 OR S9 OR S10 OR S11
S20         19    S19 NOT PD>20020226
S21         19    S20 NOT PY>2002
File 256:SoftBase:Reviews,Companies&Prods. 82-2004/May
          (c)2004 Info.Sources Inc
```

00096279   DOCUMENT TYPE: Review

PRODUCT NAMES: **NetScheme InterMart** Toolkit **1.0** **(643441**

TITLE: **NetScheme serves data to Web**
AUTHOR: Shankar, Gess
SOURCE: InfoWorld,   v18 n43 pIW/1(2) Oct 21, 1996
ISSN: 0199-6649
HOMEPAGE: http://www.infoworld.com

RECORD TYPE: Review
REVIEW TYPE: Review
GRADE: A

REVISION DATE: 20000430

PRODUCT NAMES: **NetScheme InterMart** Toolkit **1.0...**

NetScheme Solutions' NetScheme InterMart **Toolkit** 1.0 presents a one-stop
solution for making back-end data available to intranet...

...opposed to database terms. The kit includes a set of Wizards for
creating relationships and **links** . There are three major **components** : the
Modeler, for developing the navigation model; the Web Page Designer, for
customizing Web pages; and the Navigation Server, which runs as a Windows
NT service and interacts with the **RDBMS** . This is where **requests** from
the Web browser are **converted** to SQL **queries** .

```
Set      Items     Description
S1     2864983    QUERY OR QUERIES OR QUERYING? OR INQUIR? OR REQUEST? OR SE-
                  ARCH()STATEMENT?
S2    10143052    MAP OR MAPS OR MAPPING OR MAPPED OR LINK? OR ASSOCIAT? OR -
                  CORRELAT?
S3       27260    (PHYSICAL? OR ACTUAL OR REAL)(2N)(FIELD? OR ELEMENT? OR EN-
                  TRY OR ENTRIES)
S4       11714    (LOGICAL? OR VIRTUAL OR CUSTOMI?)(2N)(FIELD? OR ELEMENT? OR
                  ENTRY OR ENTRIES)
S5     6110312    TOOL? OR RUNTIME? OR RUN()TIME? OR COMPONENT? OR MODULE?
S6    11335492    TRANSLAT? OR CONVERT? OR CONVERSION? OR MODIF? OR CHANG?
S7        2647    ABSTRACTION()LAYER?
S8           2    S1 (10N) S2 (10N) S3 (10N) S4
S9         272    S1 (10N) S2 (10N) (PHYSICAL? OR ACTUAL? OR REAL?) (10N) (L-
                  OGICAL? OR VIRTUAL? OR CUSTOMI?) AND S6
S10        103    S9 (S) S5
S11         35    S2 (S) S3 (S) S4
S12          4    S3 (10N) S4 (10N) S5 (10N) (S6 OR S7)
S13    2432153    DATABASE? OR DATABANK? OR DATA()(BASE? OR BANK? OR REPOSIT-
                  OR?) OR DBMS OR DB OR DBS OR OODB OR OODBS OR RDB?
S14       7845    S6 (10N) S13 (10N) S1
S15         23    S14 (S) (S3 OR S4)
S16          6    S14 (S) S5 (S) S7
S17          0    S10(S)S7
S18          2    S10(S)(S3 OR S4)
S19         68    S8 OR S11 OR S12 OR S15 OR S16 OR S18
S20         44    RD (unique items)
S21         35    S20 NOT PY>2001
S22         34    S21 NOT PD=20010226:20040609
File 275:Gale Group Computer DB(TM) 1983-2004/Jun 09
         (c) 2004 The Gale Group
File  47:Gale Group Magazine DB(TM) 1959-2004/Jun 03
         (c) 2004 The Gale group
File  75:TGG Management Contents(R) 86-2004/May W5
         (c) 2004 The Gale Group
File 636:Gale Group Newsletter DB(TM) 1987-2004/Jun 08
         (c) 2004 The Gale Group
File  16:Gale Group PROMT(R) 1990-2004/Jun 09
         (c) 2004 The Gale Group
File 624:McGraw-Hill Publications 1985-2004/Jun 09
         (c) 2004 McGraw-Hill Co. Inc
File 484:Periodical Abs Plustext 1986-2004/May W5
         (c) 2004 ProQuest
File 813:PR Newswire 1987-1999/Apr 30
         (c) 1999 PR Newswire Association Inc
File 141:Readers Guide 1983-2004/Jun
         (c) 2004 The HW Wilson Co
File 621:Gale Group New Prod.Annou.(R) 1985-2004/Jun 07
         (c) 2004 The Gale Group
File 674:Computer News Fulltext 1989-2004/May W5
         (c) 2004 IDG Communications
File 369:New Scientist 1994-2004/May W5
         (c) 2004 Reed Business Information Ltd.
File 160:Gale Group PROMT(R) 1972-1989
         (c) 1999 The Gale Group
File 635:Business Dateline(R) 1985-2004/Jun 08
         (c) 2004 ProQuest Info&Learning
File  15:ABI/Inform(R) 1971-2004/Jun 08
         (c) 2004 ProQuest Info&Learning
File   9:Business & Industry(R) Jul/1994-2004/Jun 08
         (c) 2004  The Gale Group
File  13:BAMP 2004/May W3
         (c) 2004  The Gale Group
File 810:Business Wire 1986-1999/Feb 28
         (c) 1999 Business Wire
File 647:CMP  Computer Fulltext 1988-2004/May W5
         (c) 2004 CMP Media, LLC
File  98:General Sci Abs/Full-Text 1984-2004/Jun
```

01785104   SUPPLIER NUMBER: 16898033   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Esperant. (Software AG of North America Inc)(one of seven evaluations of
   Structured Query Language tools in "SQL Query and Reporting Tools
   Straight Answers Limited Risks") (Software Review)(Evaluation)
Eoff, James L.
PC Magazine, v14, n11, p230(2)
June 13, 1995
DOCUMENT TYPE: Evaluation   ISSN: 0888-8507   LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1112   LINE COUNT: 00091

...   concept behind Software AG's Esperant 2.1 is compelling: a powerful
English-language query **tool** 'that sits on top of a sophisticated database
abstraction   layer >. End users work exclusively with familiar business
entities while the product hides the nitty-gritty of relational data and
protects them from the many traps that SQL syntax offers. The **query   tool**
 takes simple English-like commands and **converts**   them into complex,
database -specific SQL.
     The current release, which is Esperant's first despite the 2.x version
...

DOD legacy systems; reverse engineering data requirements. (excerpt from
    paper presented at the May 1993 Association of Computing Machinery/IEEE
    Computer Society's Working Conference on Reverse Engineering)
Aiken, Peter; Muntz, Alice; Richards, Russ
Communications of the ACM, v37, n5, p26(16)
May, 1994
ISSN: 0001-0782   LANGUAGE: ENGLISH   RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 6060   LINE COUNT: 00530

...   design dictionary contains physical structures and related
information.
    To enhance traceability, physical evidence obtained is linked in an
Information Resource Catalog (IRC) database. The IRC contains sources of
information relevant to...

...stored in filing cabinets. The traceability matrix is used to identify
and/or trace the correlation of items contained in the various models and
document the satisfaction of business requirements and...

...in the encyclopedia are also loaded into the IRC. The IRC also permits
users to link   physical evidence to the data model with an interface
that users can use to query the contents of IRC, the data modeling
status, and linkage between physical   elements , logical entities,
and business requirements and rules.
    Lessons learned Management Issues
    Getting formal commitment and authorization

```
Set      Items     Description
S1       315737    QUERY OR QUERIES OR QUERYING? OR INQUIR? OR REQUEST? OR SE-
                   ARCH()STATEMENT?
S2       7051018   MAP OR MAPS OR MAPPING OR MAPPED OR LINK? OR ASSOCIAT? OR -
                   CORRELAT?
S3       32006     (PHYSICAL? OR ACTUAL OR REAL)(2N)(FIELD? OR ELEMENT? OR EN-
                   TRY OR ENTRIES)
S4       4139      (LOGICAL? OR VIRTUAL OR CUSTOMI?)(2N)(FIELD? OR ELEMENT? OR
                   ENTRY OR ENTRIES)
S5       3904813   TOOL? OR RUNTIME? OR RUN()TIME? OR COMPONENT? OR MODULE?
S6       7336798   TRANSLAT? OR CONVERT? OR CONVERSION? OR MODIF? OR CHANG?
S7       275       ABSTRACTION()LAYER?
S8       0         S1 AND S2 AND S3 AND S4
S9       175       S1 AND S2 AND (PHYSICAL? OR ACTUAL? OR REAL?) AND (LOGICAL?
                   OR VIRTUAL? OR CUSTOMI?) AND S6
S10      31        S9 AND S5
S11      30        S2 AND S3 AND S4
S12      17        S3 AND S4 AND S5 AND (S6 OR S7)
S13      906683    DATABASE? OR DATABANK? OR DATA()(BASE? OR BANK? OR REPOSIT-
                   OR?) OR DBMS OR DB OR DBS OR OODB OR OODBS OR RDB?
S14      9892      S6 AND S13 AND S1
S15      13        S14 AND (S3 OR S4)
S16      2         S14 AND S5 AND S7
S17      8         S11 AND S5
S18      0         S11 AND S7
S19      68        S10 OR S12 OR S15 OR S16 OR S17
S20      55        RD (unique items)
S21      50        S20 NOT PY>2002
S22      50        S21 NOT PD=20020226:20050619
File   8:Ei Compendex(R) 1970-2004/May W5
          (c) 2004 Elsevier Eng.  Info. Inc.
File  35:Dissertation Abs Online 1861-2004/May
          (c) 2004 ProQuest Info&Learning
File 202:Info. Sci. & Tech. Abs. 1966-2004/May 14
          (c) 2004 EBSCO Publishing
File  65:Inside Conferences 1993-2004/Jun W1
          (c) 2004 BLDSC all rts. reserv.
File   2:INSPEC 1969-2004/May W5
          (c) 2004 Institution of Electrical Engineers
File  94:JICST-EPlus 1985-2004/May W3
          (c)2004 Japan Science and Tech Corp(JST)
File 111:TGG Natl.Newspaper Index(SM) 1979-2004/Jun 09
          (c) 2004 The Gale Group
File 233:Internet & Personal Comp. Abs. 1981-2003/Sep
          (c) 2003 EBSCO Pub.
File   6:NTIS 1964-2004/Jun W1
          (c) 2004 NTIS, Intl Cpyrght All Rights Res
File 144:Pascal 1973-2004/May W5
          (c) 2004 INIST/CNRS
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
          (c) 1998 Inst for Sci Info
File  34:SciSearch(R) Cited Ref Sci 1990-2004/May W5
          (c) 2004 Inst for Sci Info
File  99:Wilson Appl. Sci & Tech Abs 1983-2004/May
          (c) 2004 The HW Wilson Co.
```

05644469   E.I. No: EIP00095307232
Title: Watermaking while preserving the critical path
Author: Meguerdichian, Seapahn; Potkonjak, Miodrag
Corporate Source: Univ of California, Los Angeles, CA, USA
Conference Title: DAC 2000: 37th Design Automation Conference
Conference   Location: Los   Angeles,   CA,   USA   Conference   Date:
19000605-19000609
Sponsor: ACM/SIGDA; IEEE; EDAC; General
E.I. Conference No.: 57166
Source: Proceedings   -   Design   Automation   Conference   2000.   IEEE,
Piscataway, NJ, USA. p 108-111
Publication Year: 2000
CODEN: PDAWDJ   ISSN: 0738-100X
Language: English
Document Type: CA; (Conference Article)   Treatment: T; (Theoretical)
Journal Announcement: 0010W2

Abstract: In many modern designs, timing is either a key optimization
goal and/or a mandatory constraint. We propose the first intellectual
property protection technique using watermarking that guarantees
preservation of timing constraints by judiciously selecting parts of the
design specification on which watermarking constraints can be imposed. The
technique is applied during the **mapping** of **logical** **elements** to
instances of realization **elements** in a **physical** library. The generic
technique is applied to two steps in the design process: combinational
logic **mapping** in logic synthesis and template matching in behavioral
synthesis. The technique is fully transparent to the synthesis process, and
can be used in conjunction with arbitrary synthesis **tools** . Several
optimization problems **associated** with the application of the technique
have been solved. The effectiveness of the technique is demonstrated on a
number of designs at both logic synthesis and behavioral synthesis. (Author
abstract) 17 Refs.
Descriptors: *Logic design; Intellectual property; Combinatorial circuits
; Pattern matching; Security of data; Cryptography; Algorithms;
Optimization
Identifiers: Watermarking; Critical path; Template matching; Logic
synthesis
Classification Codes:
721.2 (Logic Elements); 902.3 (Legal Aspects); 723.5 (Computer
Applications); 723.2 (Data Processing); 723.1 (Computer Programming);
921.5 (Optimization Techniques)
721 (Computer Circuits & Logic Elements); 902 (Engineering Graphics &
Standards); 723 (Computer Software); 921 (Applied Mathematics)
72 (COMPUTERS & DATA PROCESSING); 90 (GENERAL ENGINEERING); 92
(ENGINEERING MATHEMATICS)

05100874   E.I. No: EIP98084347147
  Title: Information visualization on the Web
  Author: Jern, Mikael
  Corporate Source: Advanced Visual Systems, Birkeroed, Den
  Conference Title: Proceedings of the 1998 International Conference on
Information Visualization, IV
  Conference Location: London, UK   Conference Date: 19980729-19980731
  Sponsor: IEEE
  E.I. Conference No.: 48810
  Source: Proceedings of the IEEE Symposium on Information Visualization
1998. IEEE, Piscataway, NJ, USA,98TB100246. p 2-7
  Publication Year: 1998
  CODEN: 002219
  Language: English
  Document Type: CA; (Conference Article)   Treatment: T; (Theoretical)
  Journal Announcement: 9810W3
  Abstract: A thin client, by definition, have minimal software
requirements necessary to function as a user interface front-end for a Web
enabled application and raises the issue of client vs. server data
visualization rendering. **Real** -time visual data manipulation doesn't
translate well into a `thin' client. While the VRML file format allows
distribution of visualization scenes to the Web, the user has no access to
the **actual** underlying data source. The ` **mapping** ' of numerical data into
geometry format (VRML) takes place at the server side. Local data
manipulation, information drill-down technique, context sensitive menus,
object picking and other interactive user interface functions that
traditionally have been available on the client are now controlled by the
visualization server. In the `thin' client model, nearly all functionality
is delivered from the server side of the visualization engine while the
client perform very simple display and **querying** functions. Web
components and Plug-ins are now being used to overcome some of these
limitations. Java allows the creation of `applets' and `JavaBeans' and we
have Windows/COM **components** . These **components** together with data
reduction methods can significantly increase the data interaction between
the client application and user, and allow tasks to be executed on the
client. Highly interactive user interface tasks are delivered that provide
point-and-click navigation through multidimensional data structures. Visual
data interfaces such as information drilling, moving a cutting plane
through a volume data set etc can be supported. The implication of using a
static VRML environment with reduced geometry is compared to sending
compressed data to the client and perform interactive client data
visualization on a desktop. (Author abstract) 5 Refs.
  Descriptors: Data communication systems; Wide area networks; Interactive
computer graphics; Graphical user interfaces; High level languages;
Virtual   reality ; Computer operating systems; Data structures;
Computational geometry; Visualization
  Identifiers: Information visualization; World wide web (WWW); **Virtual**
reality modeling language (VRML)
  Classification Codes:
  723.1.1 (Computer Programming Languages)
  722.3 (Data Communication, Equipment & Techniques); 723.5   (Computer
Applications); 722.2 (Computer Peripheral Equipment); 723.1   (Computer
Programming); 723.2 (Data Processing)
  723   (Computer Software); 722   (Computer Hardware)
  72 (COMPUTERS & DATA PROCESSING)

04862131   E.I. No: EIP97103899803
   Title: Uniform quantifier elimination and constraint query processing
   Author: Basu, Saugata
   Corporate Source: Mathematical Sciences Research Inst, Berkeley, CA, USA
   Conference Title: Proceedings of the 1997 22nd International Symposium on
Symbolic and Algebraic Computation, ISSAC
   Conference Location: Maui, HI, USA   Conference Date: 19970721-19970723
   Sponsor: ACM
   E.I. Conference No.: 47175
   Source: Proceedings of the International Symposium on Symbolic and
Algebraic Computation, ISSAC 1997. ACM, New York, NY, USA. p 21-27
   Publication Year: 1997
   CODEN: 002153
   Language: English
   Document Type: CA; (Conference Article)   Treatment: T; (Theoretical)
   Journal Announcement: 9712W4
   Abstract: In this paper we introduce a variant of the quantifier
elimination problem for the first order theory of **real** closed **fields** .
Instead of considering a single quantified formula, we consider a uniform
sequence of such formulas and eliminate quantifiers to obtain another
uniform sequence. Our immediate motivation comes from a problem in the
theory of constraint **databases** with real polynomial constraints. Using
the uniform quantifier elimination algorithm, we give an algorithm for
converting a **query** with natural domain semantics to an equivalent one
with active domain semantics. A non-constructive version of this result was
proved in left bracket 2 right bracket . Very recently, a constructive
proof was also given independently in left bracket 5 right bracket . In the
last part of the paper, using some elementary tools from first order logic
and results described above, we prove that parity is not expressible in the
constraint **query** language over the reals. This was proved by Benedikt et
al. However unlike ours, their proof uses difficult techniques from
non-standard analysis and model theory of ordered structures. (Author
abstract) 24 Refs.
   Descriptors: **Query** languages; Algorithms; Polynomials; Constraint
theory; Computational linguistics; Theorem proving; Formal logic;
Mathematical models
   Identifiers: Uniform quantifier elimination algorithms; Constraint **query**
processing
   Classification Codes:
   723.1.1 (Computer Programming Languages)
   723.1 (Computer Programming); 921.1 (Algebra); 721.1 (Computer Theory,
Includes Formal Logic, Automata Theory, Switching Theory, Programming
Theory)
   723 (Computer Software); 921 (Applied Mathematics); 721 (Computer
Circuits & Logic Elements)
   72 (COMPUTERS & DATA PROCESSING); 92 (ENGINEERING MATHEMATICS)

01395828 ORDER NO: AAD95-05076
**DESIGN ISSUES IN THE DEVELOPMENT OF A DISTRIBUTED SYSTEM TESTBED AND ITS
TOOLBOX (DATA STRUCTURE)**
  Author: JANOTA, ROBERT RAYMOND
  Degree: PH.D.
  Year: 1994
  Corporate Source/Institution: ILLINOIS INSTITUTE OF TECHNOLOGY (0091)
  Advisers: C. R. CARLSON; J. KENEVAN
  Source: VOLUME 55/09-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
           PAGE 3978. 218 PAGES
  Descriptors: COMPUTER SCIENCE
  Descriptor Codes: 0984

     In the distributed processing environment, there are many diverse
approaches in studying a hypothesis. This is partially due to a lack of a
standardized software product which could support distributed system
applications. The design of the Distributed System Testbed is one attempt
at reducing the need for such a software product. The testbed allows for
distributed processing research and analysis by establishing the unique
conditions necessary for the execution of distributed processing
algorithms.
     This project designed an architecture with three levels. The first
level determines the elementary or low-level functions needed to support a
testbed. Along with local resource management, these functions include
simulating the behavior of a standard network type (routing and
message-passing) on a **physical** network and creating a **virtual**
configuration.
     The second level identifies the higher-level functions **associated**
with a distributed data environment. These functions manage the data
topology of the entire network by simulating a **virtual** file from all
existing attributes. Each user **requests** a subset of this **virtual** file
or one **logical** record. Conceptually, this **logical** record can be
described as a **Virtual** Distributed Data Structure (VDDS). A VDDS requires
no **physical** interdependencies of any data fragments and is dynamically
created.
     The third level deals with the application-support functions (e.g.
distributed database). These functions include transaction processing
features and distributed concurrency control algorithms.
     The algorithms supervise accessing local data fragments and can be
interpreted as performing a **Virtual** Access Logic (VAL). Having VAL manage
a VDDS **realizes** a **Virtual** Distributed Access Method (VDAM).
     The evaluation aspect of the system focuses on **module** reactions to
resource manipulations. This allows for greater freedom in transaction
profiles and more complete statistics for recorded parameters.
     The result of this project is a clearly-defined set of specifications
which will encourage the implementation of this system. These
specifications include the system architecture, functional description of
all **components** (and subcomponents), transaction processing events (i.e.
control flow and data paths) and evaluation measures. By providing this
system, a standard for comparison of distributed processing research could
exist which will benefit the computer science community.
     All software is designed as modular, message-passing subsystems that
facilitate extensions and **modifications** . This flexibility allows for the
insertion of new **modules** and the replacement of corrected ones.

890472 ORDER NO: AAD85-18098
A MECHANISM FOR NATURAL LANGUAGE DATABASE (ARTIFICIAL INTELLIGENCE)

     The purpose of this dissertation is to investigate the capabilities of
a transportable natural language database **query** methodology that has only
a surface level understanding of the user's **query** and uses a relational
logical schema as the basis of its world model. A secondary goal of this
dissertation is to explore the usefulness of explicit optimization
techniques in a natural language database **query** methodology.
     The basic features of the methodology described in this
dissertation and implemented in a test system called DRIVER are an Analyzer
that **converts** the user's **query** into a relational algebra statement and
an Evaluator which **converts** the relational algebra statement into the
data manipulation language of the target database management system and
presents the answer to the user. The Analyzer contains five **components** .
They are: a Word Role Identifier, a Phrase Segmenter, a Phrase Analyzer, a
Query Generator, and a User Dialog. Each **component** transforms the **query**
 into a form which is closer to the relational algebra statement than its
input. The Analyzer has four external sources of information. They are: a
query grammar, a world model, a **query** complexity measure, and the user.
The world model is based on a relational **logical** schema of the target
database domain. The **physical** database may have any organization provided
that a relational schema can be **mapped** onto it. Both the **query** grammar
and the complexity measure make extensive use of the **logical** schema.
     The investigative methodology was evaluated using 640 test
queries . Four hundred and four (63.1%) of those **queries** were interpreted
correctly. One hundred and fourteen (17.9%) of the **queries** were
interpreted substantially correctly (the interpretation was correct but
unfriendly or it provided a super set of the desired information). One
hundred and twenty two (19.0%) of the **queries** were not interpreted
correctly. Three hundred and thirty three of the 404 correctly interpreted
queries and 85 of the 114 substantially correctly interpreted **queries**
had only a single interpretation. For the remaining **queries** two or more
interpretations were produced and the user had to select the correct
interpretation.
     This dissertation makes contributions to the following aspects of
natural language database **query** research: improved understanding of the
capabilities and limitations of methodologies that have only a surface
level understanding of the **query** , improved understanding of the
limitations and capabilities of the **logical** schema as the basis of a
world model, and a demonstration of the usefulness of explicit optimization
techniques in natural language research. This dissertation also develops a
powerful dis-ambiguation **tool** called the complexity measure.

3102621
Method for accessing real **-time data in an automatic call distribution
system.**
Author(s): Brouillet, J -L; Ehrlich, J.; Joyce, R.; Rosler, J.
Patent Number(s): US 5546455
Publication Date: Aug 13, 1996
Language: English
Document Type: Patent
Record Type: Abstract
Journal Announcement: 3100

   In an automatic call distribution (ACD) system having a plurality of
client systems and at least one host server system, the host server system
for conducting transactions in **real** time, a method is provided for
creating and reporting data substantially synchronously with other data and
in substantial **real** -time with events which generate the data wherein at
the host server system **requests** are handled and **translated** directly
into executable machine code containing all knowledge needed to execute the
 request as a **query** as if the **query** were directed to a relational
database , a **query** in **real** -time interaction is used to access data in
shared memory of those host server system and report information, typically
status information related to transactions of interest, to the **requesting**
client system. Method and apparatus are provided for **mapping** between the
logical view of shared memory and the **physical** structure of shared
memory wherein in the form of a data access **module** which provides a
function to execute for each **field** in the **logical** view of shared
memory. A **database** manager **module** is employed to monitor data in a
static **database** and to provide relevant information to shared memory for
access by the data access **module** , so that the data access **module** need
not access the static **database** directly.

Descriptors: Access methods; Client server systems; Communications;
  Database management systems
Classification Codes and Description: 3.11 (Communications and
  Telecommunications Systems); 5.11 (Searching and Retrieval)
Main Heading: Information Generation and Promulgation; Information
  Processing and Control

02339189   INSPEC Abstract Number: C84051438
 Title: The multi-layer logic as a rational database   query language and
its reduction algorithm to relational procedure
   Author(s): Udagawa, Y.; Ohsuga, S.
   Author Affiliation: Inst. of Interdisciplinary Res., Faculty of Engng.,
Univ. of Tokyo, Tokyo, Japan
   Journal: Transactions of the Information Processing Society of Japan
vol.23, no.6   p.634-42
   Publication Date: 1982 Country of Publication: Japan
   CODEN: JSGRD5 ISSN: 0387-5806
   Language: Japanese   Document Type: Journal Paper (JP)
   Treatment: General, Review (G); Practical (P)
   Abstract: This paper discusses a method for describing rational- database
 queries by means of a multilayer logical expression and an algorithm for
 converting the logical expression into the retrieval procedure. The
multilayer logical expression used as database   query language has the
following features: (1) set operations can be performed without using
special symbols and procedure elements , (2) virtual relations can be
defined from the relation stored in a computer, and (3) the multilayer
logical expression can be used as objective languages for query language.
(12 Refs)
   Subfile: C
   Descriptors: database management systems; information retrieval
   Identifiers: multi-layer logic; rational database   query language;
reduction algorithm; relational procedure; rational- database   queries ;
multilayer logical expression; database   query language; set operations;
virtual relations
   Class Codes: C6140D (High level languages); C6160D (Relational DBMS);
C7250 (Information storage and retrieval)